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(to be used for all	correspondence aft	er initial filing)	First Named Inventor	Alok	Kumar	
			Art Unit	2881		
				Not a	ssigned	
Total Number of I	Pages in This Submiss	ion	Attorney Docket Number	42P1	7967	
	ENCLO	SURES (chec	k all that apply)			
Fee Transmittal	Form	Drawing(s)			After Allowance Communication to Group	
Fee Attached Licensia			elated Papers		Appeal Communication to Board of Appeals and Interferences	
Amendment / R	esponse	Petition			Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)	
After Fina Affidavits	al /declaration(s)	Petition to 0 Provisional	Convert a Application		Proprietary Information	
Extension of Tir	ne Request	Power of A Change of	ttorney, Revocation Correspondence Address		Status Letter	
Express Abandonment Request		Terminal Disclaimer			Other Enclosure(s) (please identify below):	
Information Disclosure Statement		Request for	r Refund		Leturn Receipt Postcard	
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	SIGNATURI	E OF APPLICA	NT, ATTORNEY, OR A	GENT		
Firm	Paul A. Mendor	nsa, Reg. No. 4	12,879			
· <i>or</i> Individual name	BLAKEZY, S	OKOLOFF,	TAYLOR & ZAFN	IAN I	LLP	
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Date	December 31,					
	CERTIF	ICATE OF MAIL	ING/TRANSMISSION			
I hereby certify that th sufficient postage as t 22313-1450.	is correspondence is b first class mail in an en	eing deposited wi velope addressed	th the United States Posta to: Commissioner for Pat	I Servic ents, P.	e on the date shown below with O. Box 1450, Alexandria, VA	
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Signature	1 - P-#	$\overline{}$		Date	December 31, 2004	

## ANSMITTAL FY 2005

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27.

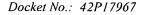
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Application Number	10/822,034			
Filing Date	April 8, 2004			
First Named Inventor	Alok Kumar			
Examiner Name	Not assigned			
Art Unit	2881			
Attorney Docket No.	42P17967			

METHOD	OF PAY	MENT (cl	neck all	that apply)						
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Deposit A	ccount D	eposit Ac	count N	fumber: 02-2666 Deposit Account Name: Blakely, Sokoloff, Taylor & Z	afman LLP					
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FEE CALCU	LATION									
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1051	130	2051	65	Surcharge - late filing fee or oath						
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2053	130	2053	130	Non-English specification						
1251	120	2251	60	Extension for reply within first month						
1252	450	2252	225	Extension for reply within second month						
1253	1,020	2253	510	Extension for reply within third month						
1254	1,590	2254	795	Extension for reply within fourth month						
1255	2,160	2255	1,080	Extension for reply within fifth month						
1401	500	2401	250	Notice of Appeal						
1402	500	2402		Filing a brief in support of an appeal						
1403	1,000	2403		Request for oral hearing						
1451	1,510	2451		Petition to institute a public use proceeding						
1460	130	2460		Petitions to the Commissioner						
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)						
1806	180	1806		Submission of Information Disclosure Stmt						
1809	790	1809	395	Filing a submission after final rejection (37 CFR § 1.129(a))						
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SUBMITTED E	SY o			Comp	olete (if applicable)
Name (Print/Type)	Paul A. Vlendonsa	Registration No. (Attorney/Agent)	42,879	Telephone	(503) 439-8778
Signature	That Mundonos			Date	12/31/04





## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

e the Application of:

ALOK KUMAR, ET AL.

Application No.: 10/822,034

Filed: April 8, 2004

For: APPARATUS AND METHOD FOR TWO-STAGE

PACKET CLASSIFICATION USING MOST SPECIFIC FILTER MATCHING AND

TRANSPORT LEVEL SHARING

Art Group: 2881

Examiner: Not assigned

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of IDS Citation Form PTO/SB/08 or PTO-1449, together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed). This IDS and IDS Citation Form are being submitted before the mailing of a first Office Action. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Rachael L. Brown

Respectfully submitted,

BLAKELY/SOKOLOFF, TAYLOR & ZAFMAN LLP

Paul A. Mendonsa, Reg. No. 42,879

12400 Wilshire Boulevard, 7th Floor Los Angeles, CA 90025

Telephone: (503) 439-8778

Date: December 31, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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CAT & TRAI	NFORMATION DISCLOSURE				Filing Date	April 8, 2004
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	Sheet	1	of	4	Attorney Docket Number	42P17967

	U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.'	Document Number  Number - Kind Code² (if known)	Publication Date Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
	1	US-6,147,976	11-14-2000	Shand, et al.					
	2	US-6,252,872 B1	06-26-2001	Tzeng					
	3	US-6,289,013 B1	09-11-2001	Lakshman					
	4	US-6,301,669 B2	10-09-2001	Boden					
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	6	US-2002/0165949 A1	11-07-2002	Na, et al.					
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	8	US-6,529,508 B1	03-04-2003	Li, et al.					
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	12	US-2003/0074458 A1	04-17-2003	Gokhale					
	13	US-2003/0123386 A1	07-03-2003	Yang					
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FOREIGN PATENT DOCUMENTS								
	Cite	Foreign Patent Document			Pages, Columns, Lines,			
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'Applicant's unique citation designation number (optional)?See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04?Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possibfApplicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003.

Substitute f	for form 1449A/PTO	)		Complete if Known		
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STAT	EMENT BY	APPLIC	CANT	First Named Inventor	Alok Kumar	
				Art Unit	2881	
	····	1 1		Examiner Name	Not assigned	
Sheet	2	of	4	Attorney Docket Number	42P17967	

, <u>-</u>		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	14	M.E. KOUNAVIS, ET AL., "DIRECTIONS IN PACKET CLASSIFICATION FOR NETWORK PROCESSORS", Second on Network Processors (NP2), Anaheim, CA, February, 2003, pp 1-10	
	15	P.F. TSUCHIYA, "A SEARCH ALGORITHIM FOR TABLE ENTRIES WITH NON-CONTIGUOUS WILDCARDING", Bellcore, 1991, 9 pgs.	
	16	DEGERMARK, ET AL., "SMALL FORWARDING TABLES FOR FAST ROUTING LOOKUPS", Computer Communication Review, acm sigcomm, Vol. 27, No. 4, Oct. 1997, 16 pgs.	
	17	SHAFAI, ET AL., "FULLY PARALLEL 30-MHz, 2.5Mb CAM", IEEE Journal of Solid-State Circuits, Vol. 33, No. 11, November 1998, 9. pgs.	
	18	SRINIVASAN, ET AL., "FAST AND SCALABLE LAYER FOUR SWITCHING", Computer Communication Review, acm sigcomm, Vol. 28, No. 4, Oct. 1998, 14 pgs.	
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	20	BUDDHIKOT, ET AL., "SPACE DECOMPOSITION TECHNIQUES FOR FST LAYER-4 SWITCHING", IEEE Com-Soc TC on Gigabit Networking Sixth Intnl. Workshop on Protocals for High-Speed Networks (PfHSN 99), 1999, 12 pgs.	

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Examiner	Date	
Signature	Considered	

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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Substitute f	for form 1449A/PTO	1		Complete if Known		
INFO		DISCL O	CLIDE	Application Number	10/822,034	
INFORMATION DISCLOSURE				Filing Date	April 8, 2004	
STAT	EMENT BY	APPLIC	CANT	First Named Inventor	Alok Kumar	
				Art Unit	2881	
				Examiner Name	Not assigned	
Sheet	3	of	4	Attorney Docket Number	42P17967	

	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			
	21	GUTPA, ET AL., "PACKET CLASSIFICATION ON MULTIPLE FIELDS", Computer Communication Review, acm sigcomm, Vol. 29, No. 4, October 1999, 16 pgs.				
	22	SRINIVASAN, ET AL., "PACKET CLASSIFICATION USING TUPLE SPACE SEARCH" Computer Communication Review, acm sigcomm, Vol. 29, No. 4, October 1999, 14 pgs.				
	23	GUPTA, ET AL., "CLASSIFYING PACKETS WITH HEIRARCHICAL INTELLIGENT CUTTINGS", IEEE Micro Chips, Systems Software, and Applications, Jan/Feb. 2000, 10 pgs.				
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	25	FELDMAN, ET AL., ""TRADEOFFS FOR PACKET CLASSIFICATION", IEEE Infocom 2000, The Conference on Computer Communications, Vol. 3, 12 pgs.				
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<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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				Art Unit	2881	
				Examiner Name	Not assigned	
Sheet	4	of	4	Attorney Docket Number	42P17967	

	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			
	28	GUTPA, ET AL., "ALGORITHIMS FOR PACKET CLASSIFICATION", IEEE Network, The Magazine of Global Internetworking, March/April 2001, Vol. 15, No. 2, 11 pgs.				
	29	BABOESCU, ET AL., "PACKET CLASSIFICATION FOR CORE ROUTERS: IS THERE AN ALTERNATIVE TO CAMs?", IEEE Infocom 2003, 11 pgs.				

Examiner	Date
Signature	Considered

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

 $<sup>{}^{1}\!</sup>Applicant's\ unique\ citation\ designation\ number.}{}^{2}\!Applicant\ is\ to\ place\ a\ check\ mark\ here\ if\ English\ language\ Translation\ is\ attached.}$